



Gossip of A.I.

2017/09/25

iRonhead
evangelist

25 Sep, 2017

T/F Positive Rate

Quality of Predictions

01

True Positive

I guess you had breakfast and you did have breakfast.

02

False Positive

I guess you had breakfast but you did not.

03

True Positive Rate

Among all of you who had breakfast, how many did I make correct guess?

04

False Positive Rate

Among all of you who had no breakfast, how many did I make wrong guess?

Receiver Operating Characteristic

ROC

	?
	?
	?
	?
	?
	?
	?
	?
	?
	?
	?

guess label

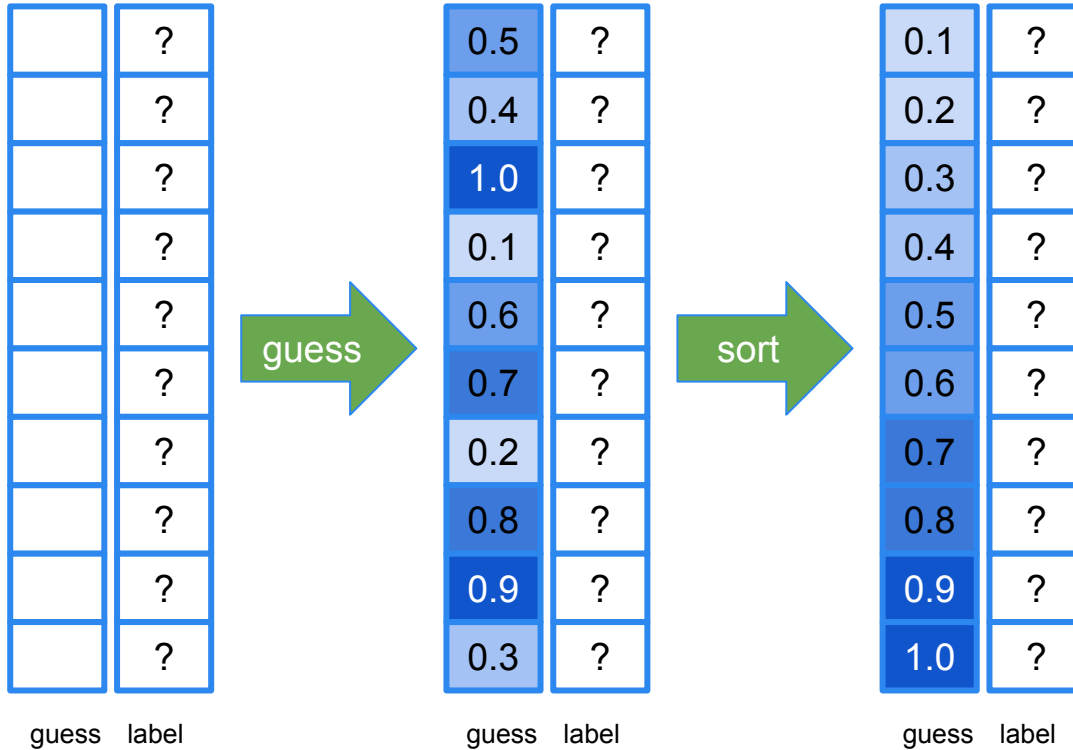
Receiver Operating Characteristic

ROC



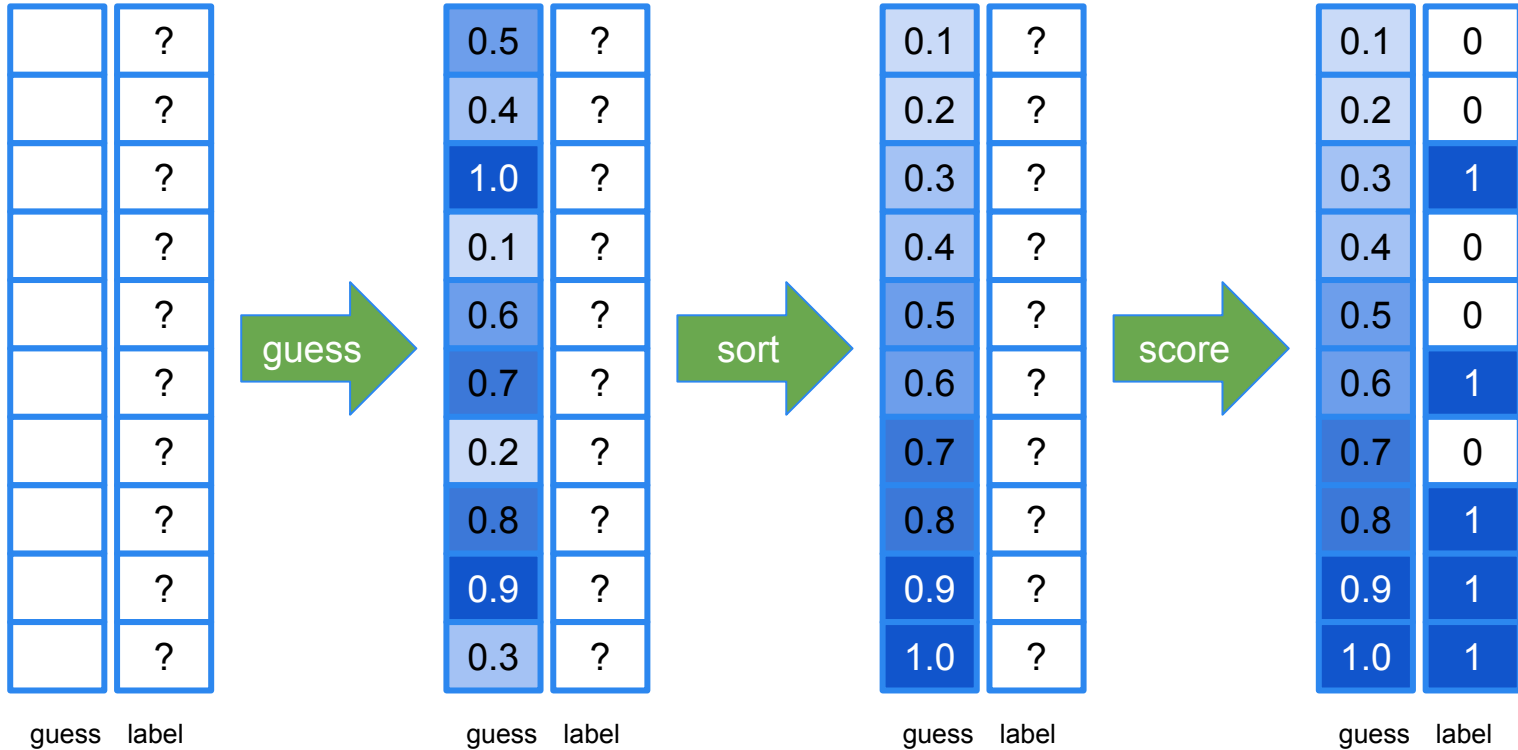
Receiver Operating Characteristic

ROC



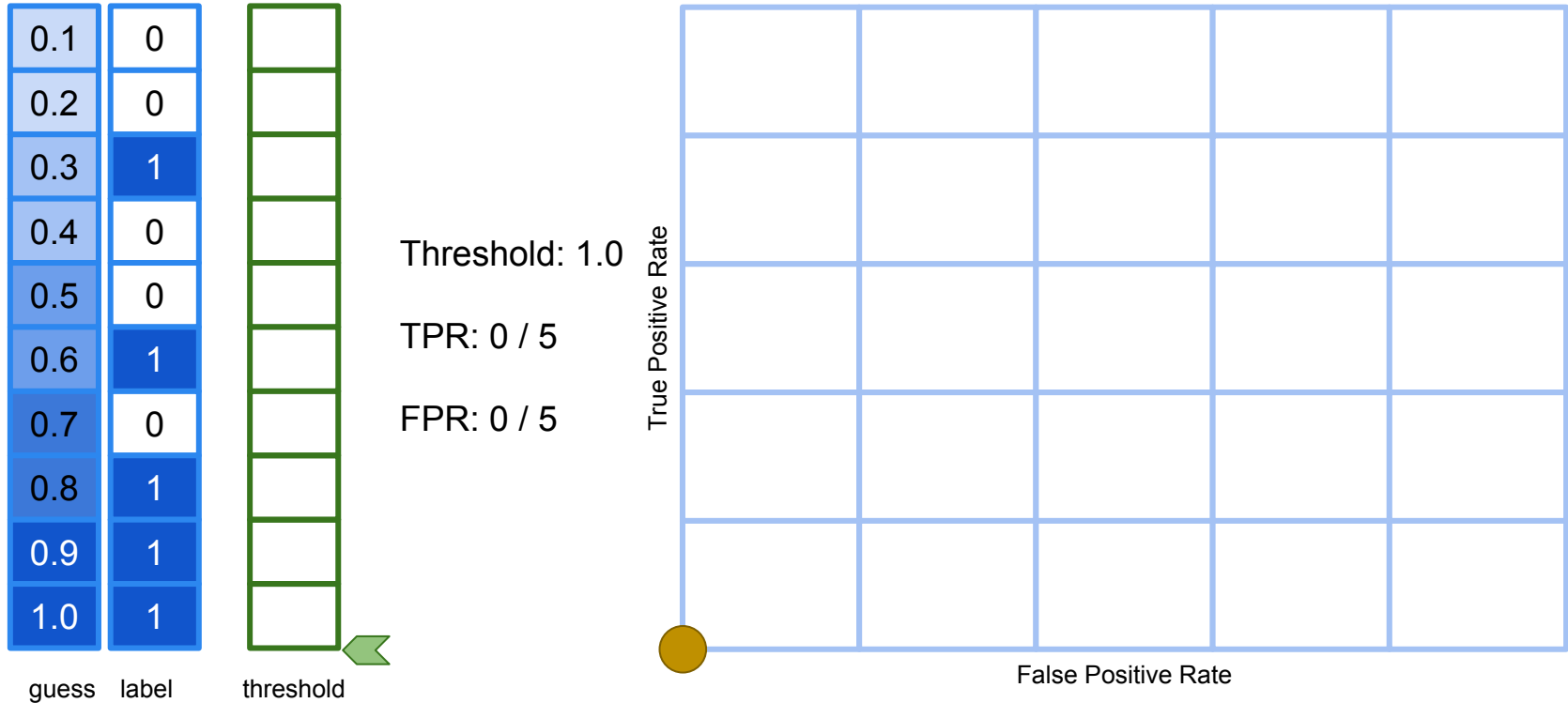
Receiver Operating Characteristic

ROC



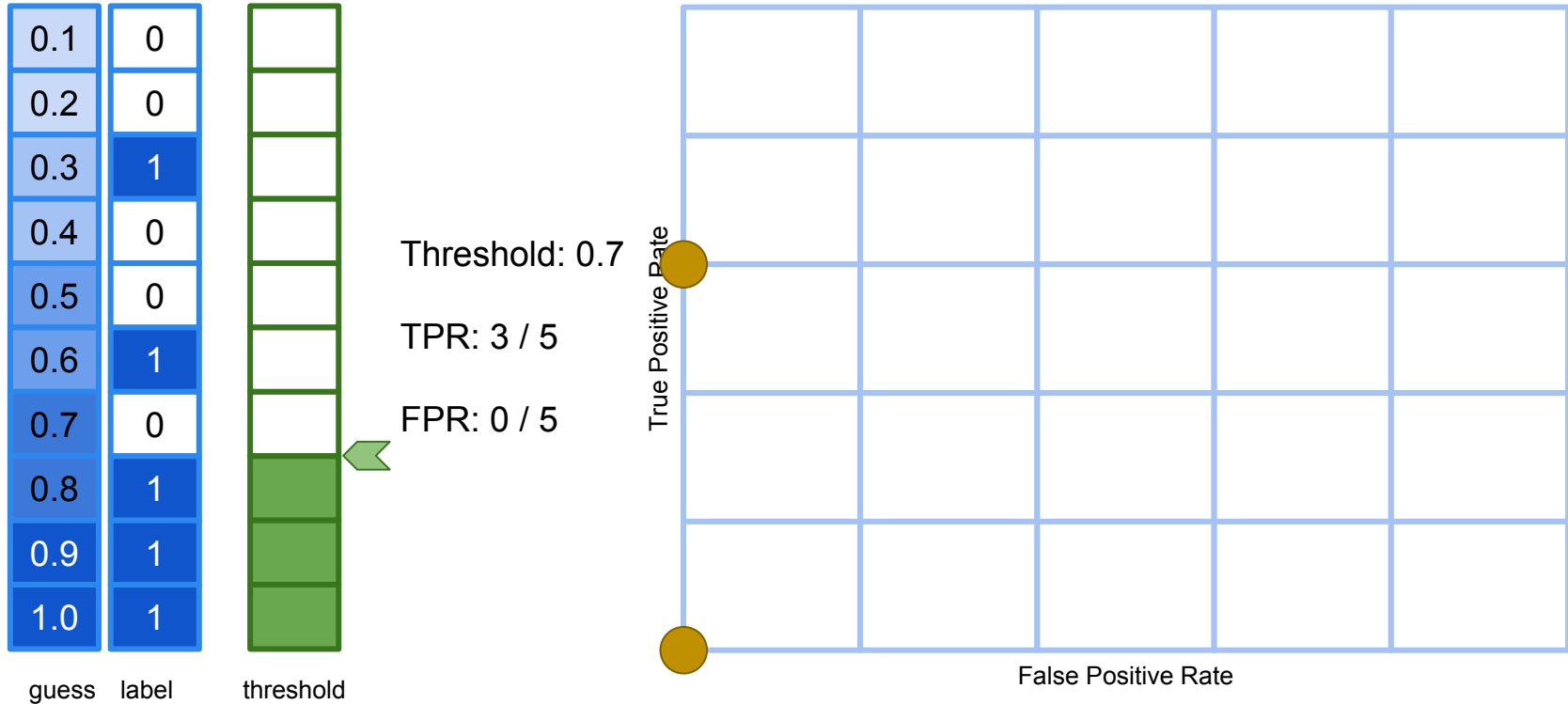
Receiver Operating Characteristic

ROC



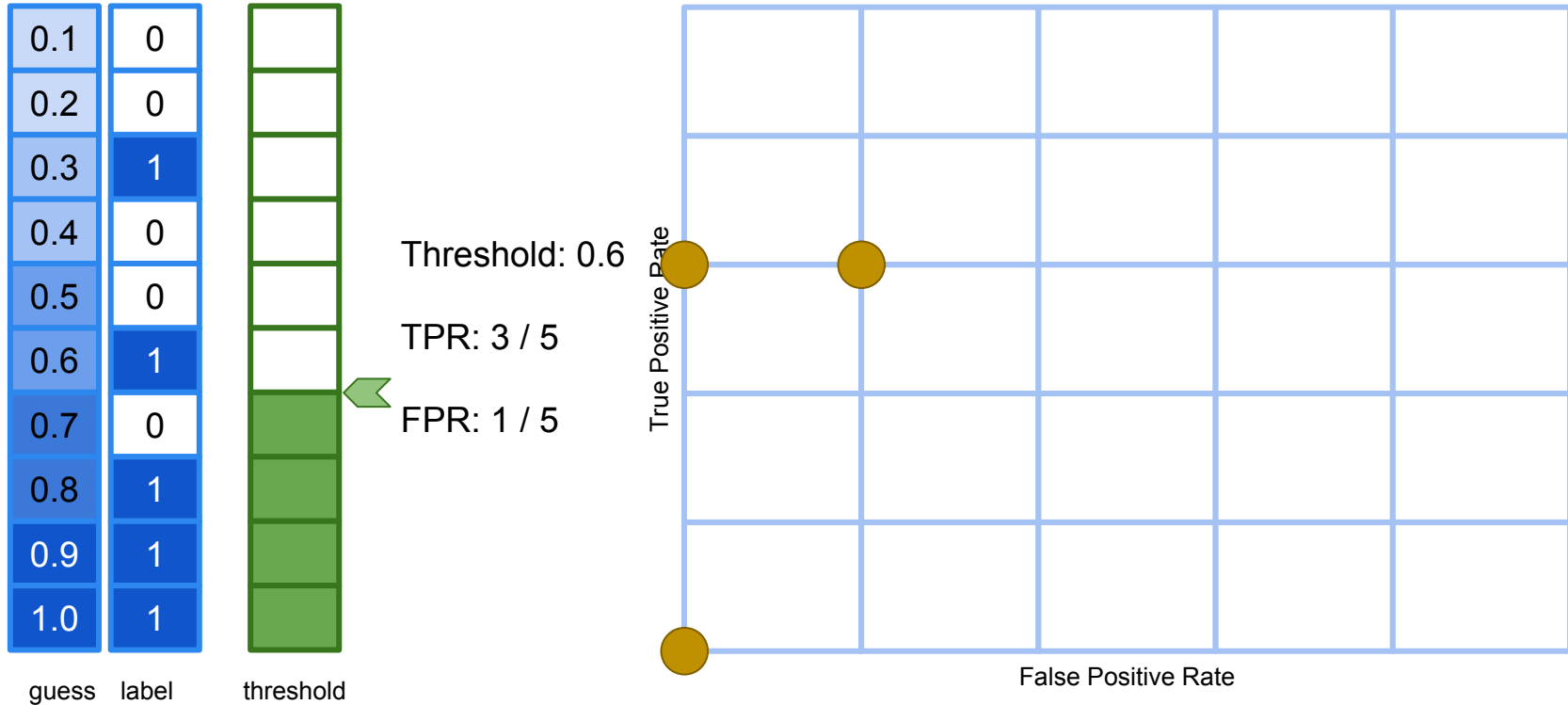
Receiver Operating Characteristic

ROC



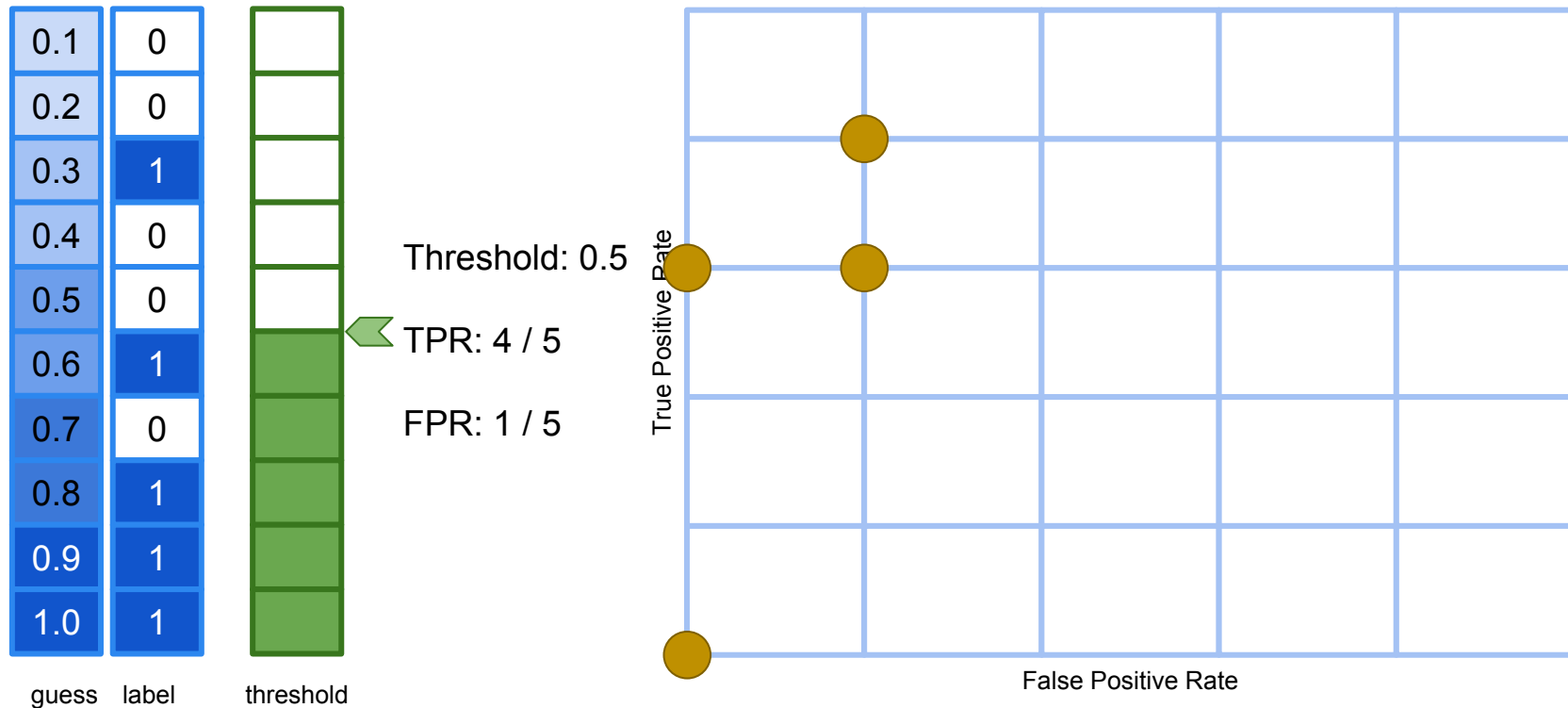
Receiver Operating Characteristic

ROC



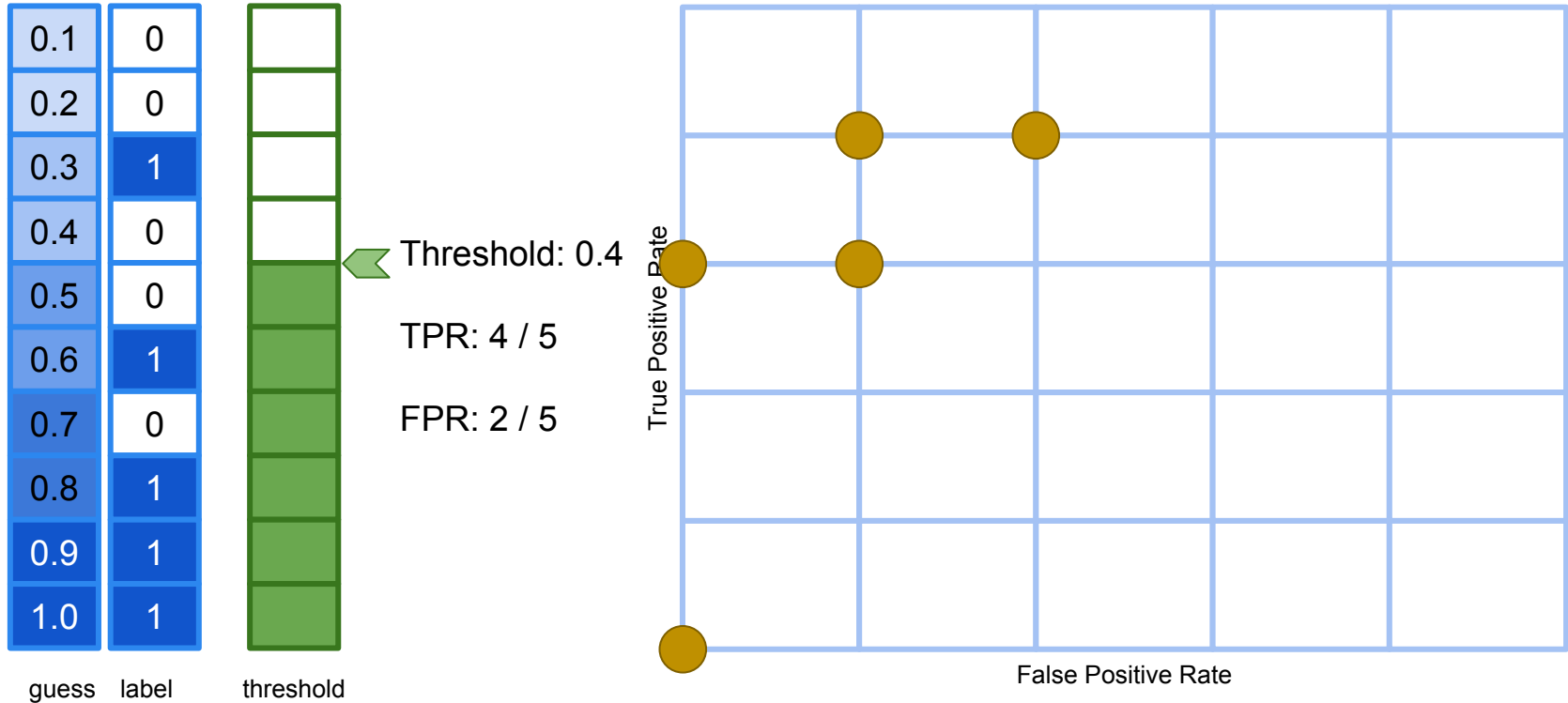
Receiver Operating Characteristic

ROC



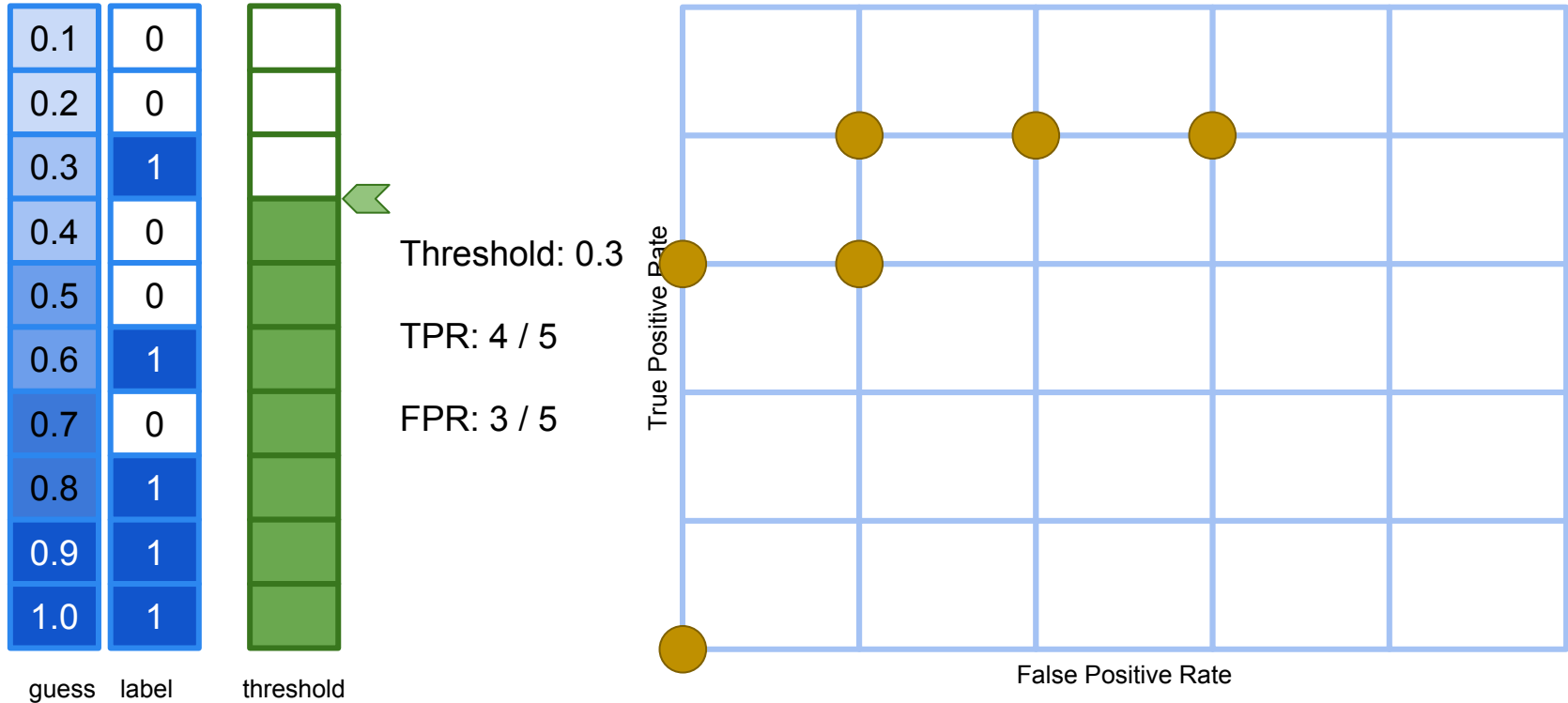
Receiver Operating Characteristic

ROC



Receiver Operating Characteristic

ROC



Receiver Operating Characteristic

ROC

0.1	0
0.2	0
0.3	1
0.4	0
0.5	0
0.6	1
0.7	0
0.8	1
0.9	1
1.0	1

guess label

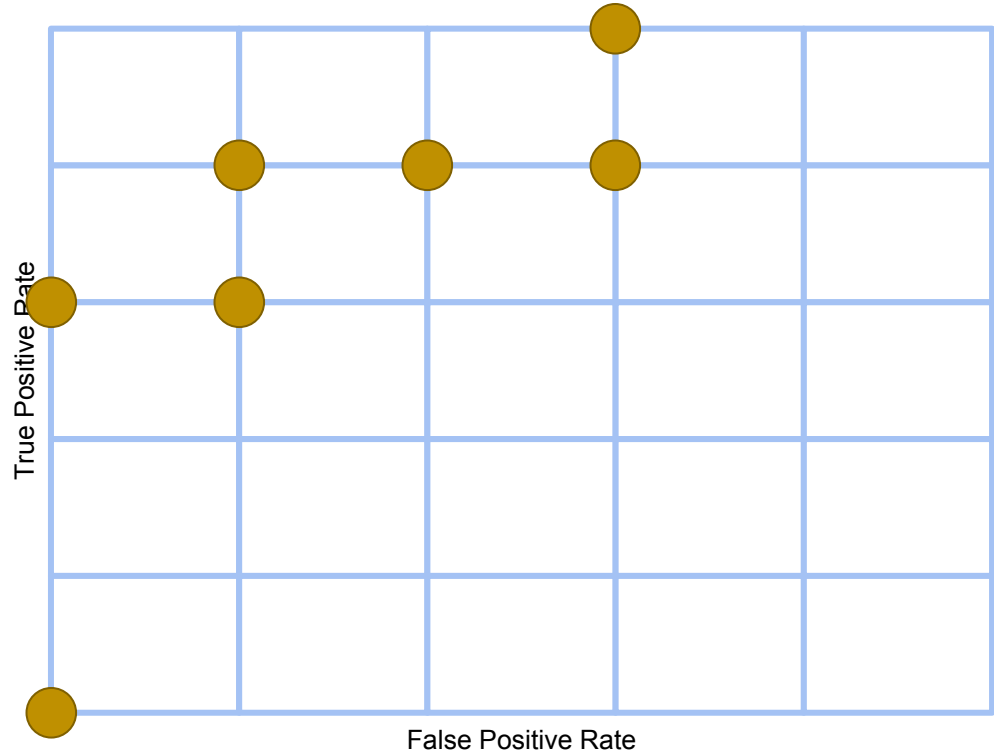


threshold

Threshold: 0.2

TPR: 5 / 5

FPR: 3 / 5



Receiver Operating Characteristic

ROC

0.1	0
0.2	0
0.3	1
0.4	0
0.5	0
0.6	1
0.7	0
0.8	1
0.9	1
1.0	1

guess

label

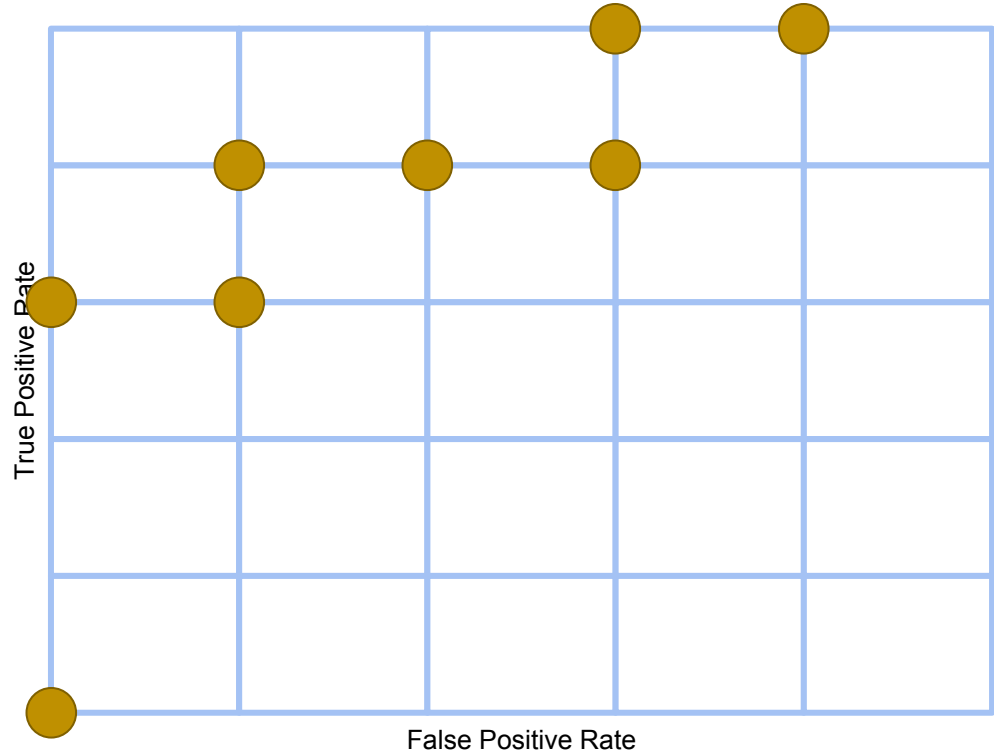


threshold

Threshold: 0.1

TPR: 5 / 5

FPR: 4 / 5



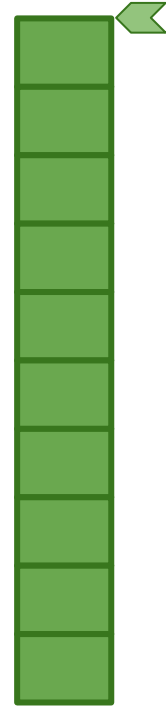
Receiver Operating Characteristic

ROC

0.1	0
0.2	0
0.3	1
0.4	0
0.5	0
0.6	1
0.7	0
0.8	1
0.9	1
1.0	1

guess

label

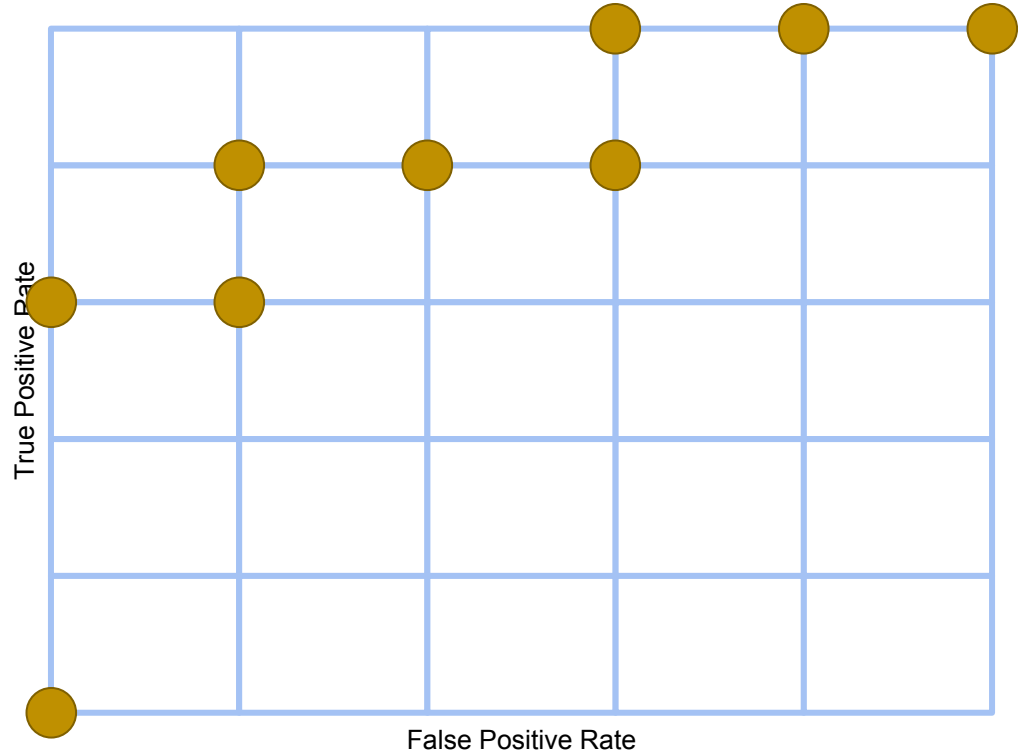


threshold

Threshold: 0.0

TPR: 5 / 5

FPR: 5 / 5



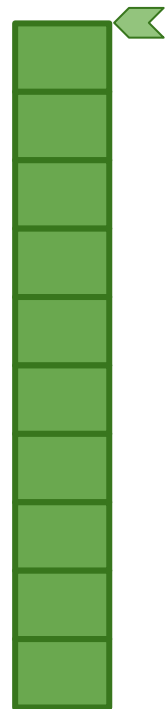
ROC Curve

ROC

0.1	0
0.2	0
0.3	1
0.4	0
0.5	0
0.6	1
0.7	0
0.8	1
0.9	1
1.0	1

guess

label

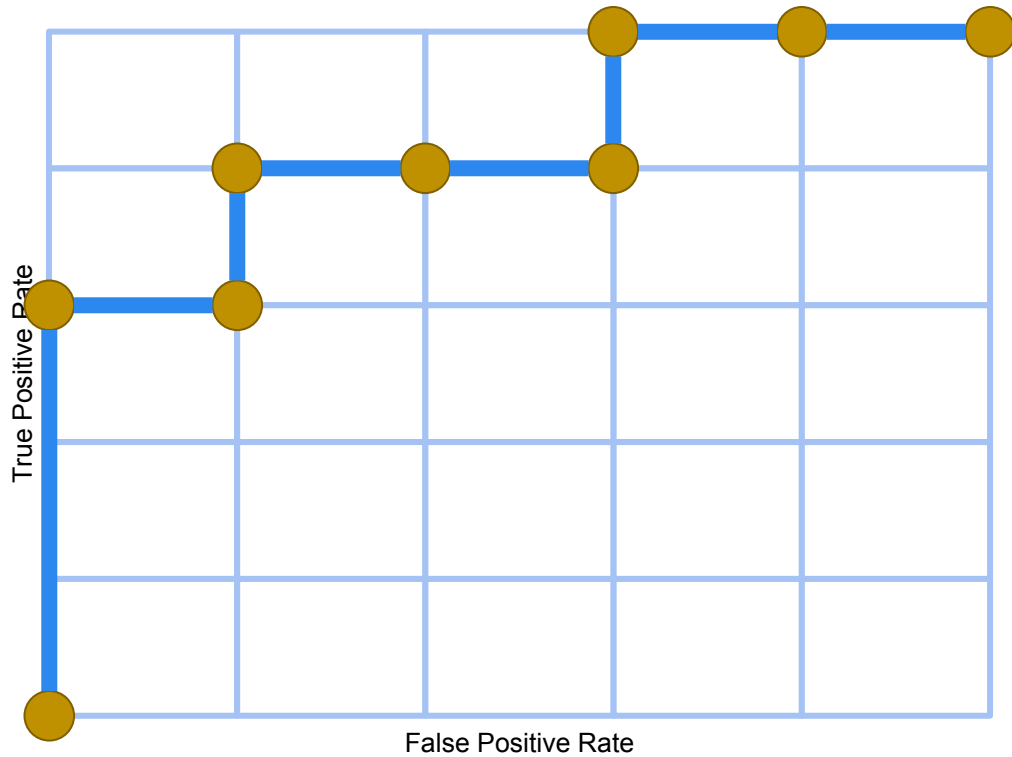


threshold

Threshold: 0.0

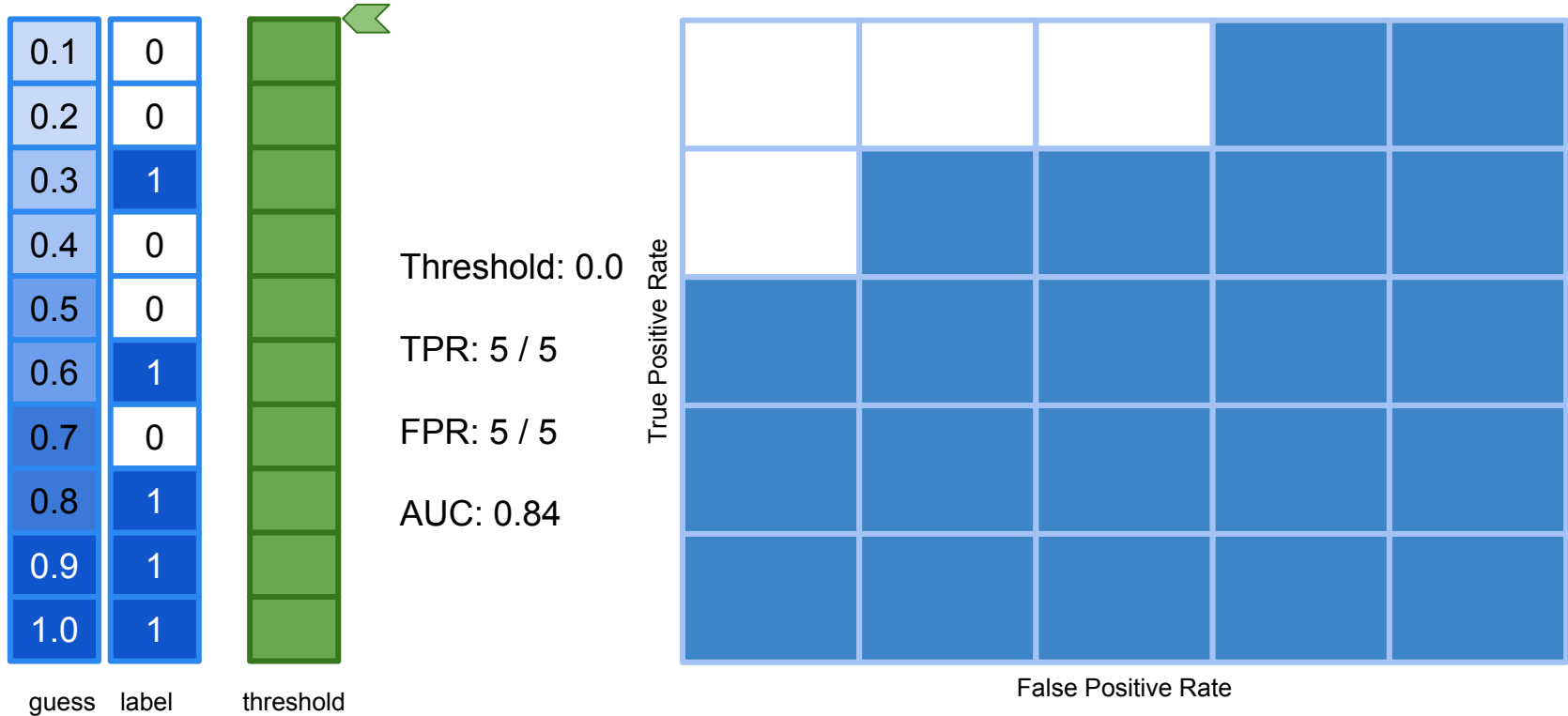
TPR: 5 / 5

FPR: 5 / 5



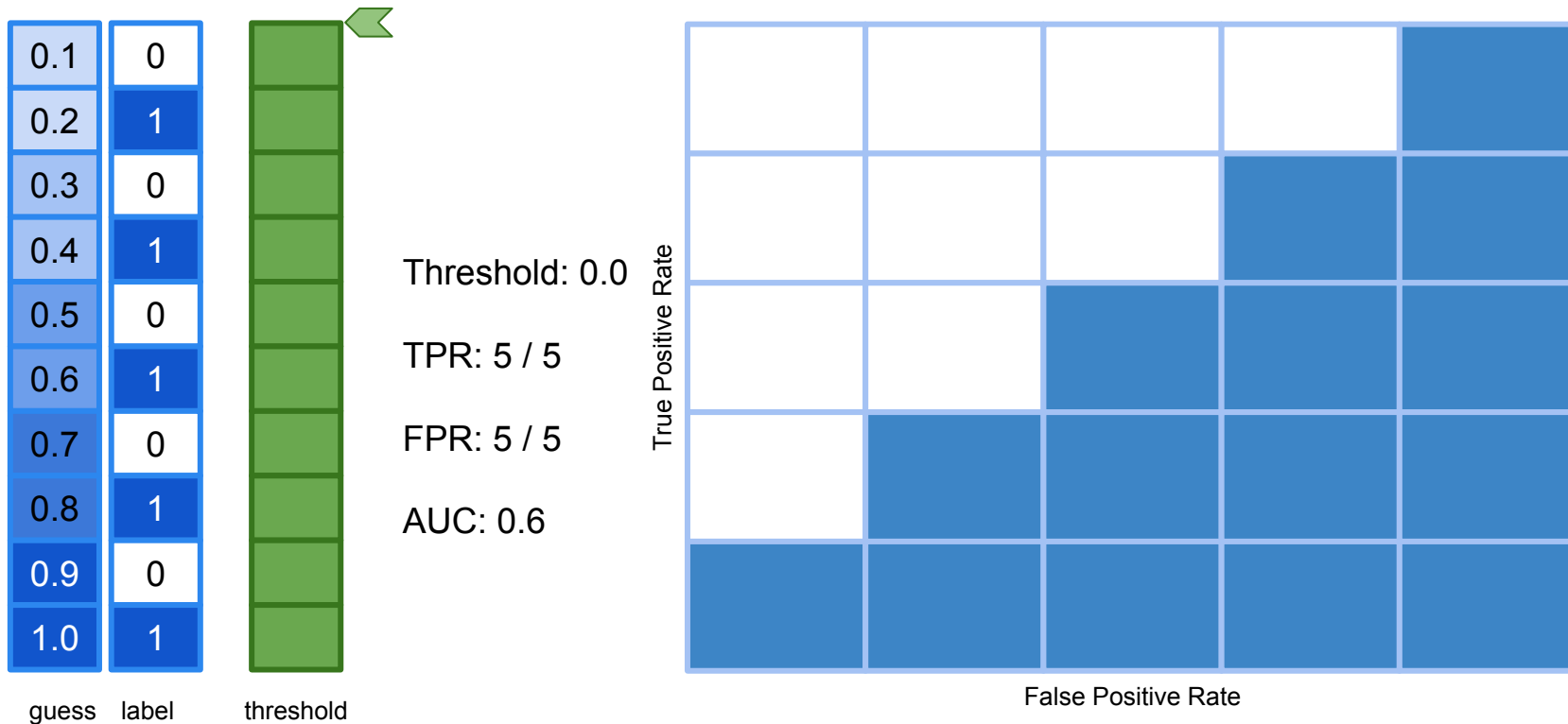
Area Under ROC Curve

AUC



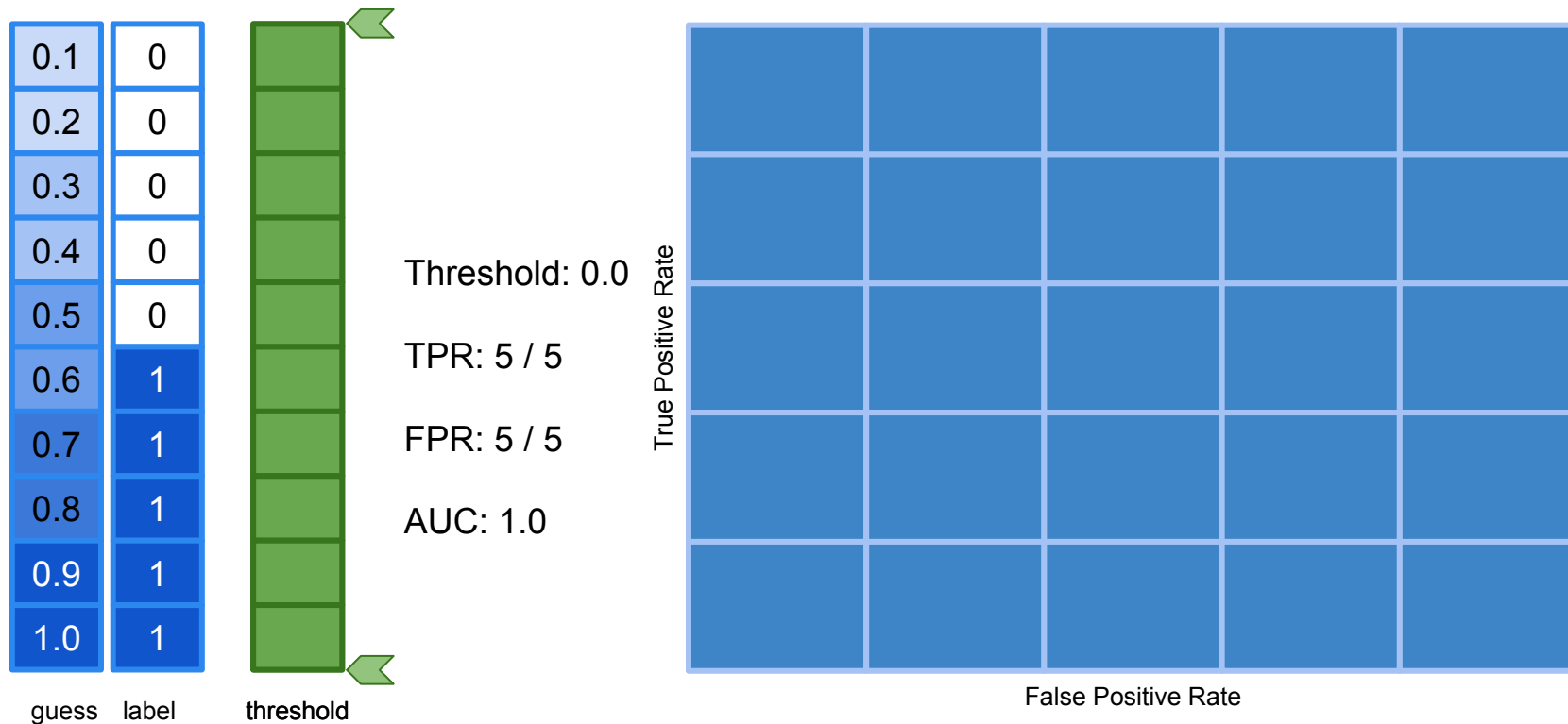
AUC of Random Guess

AUC



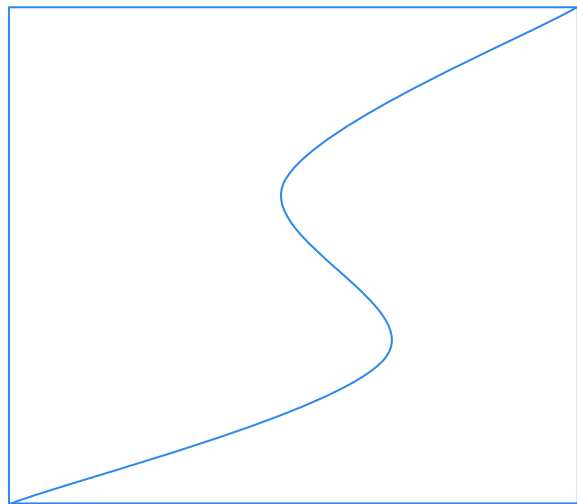
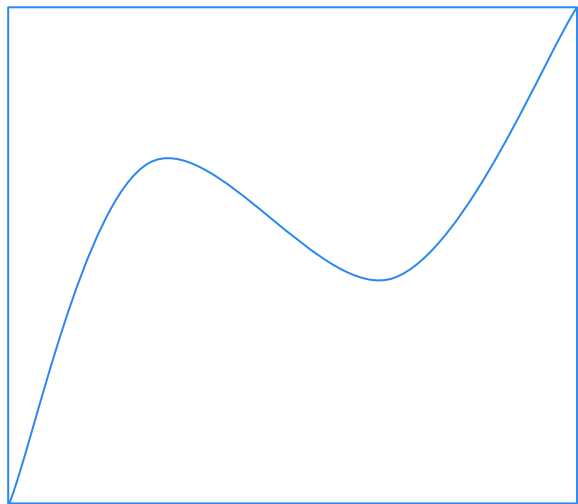
AUC of Awesome Features

AUC



Impossible ROC

Always Increasing





Thank You

Any Question?

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